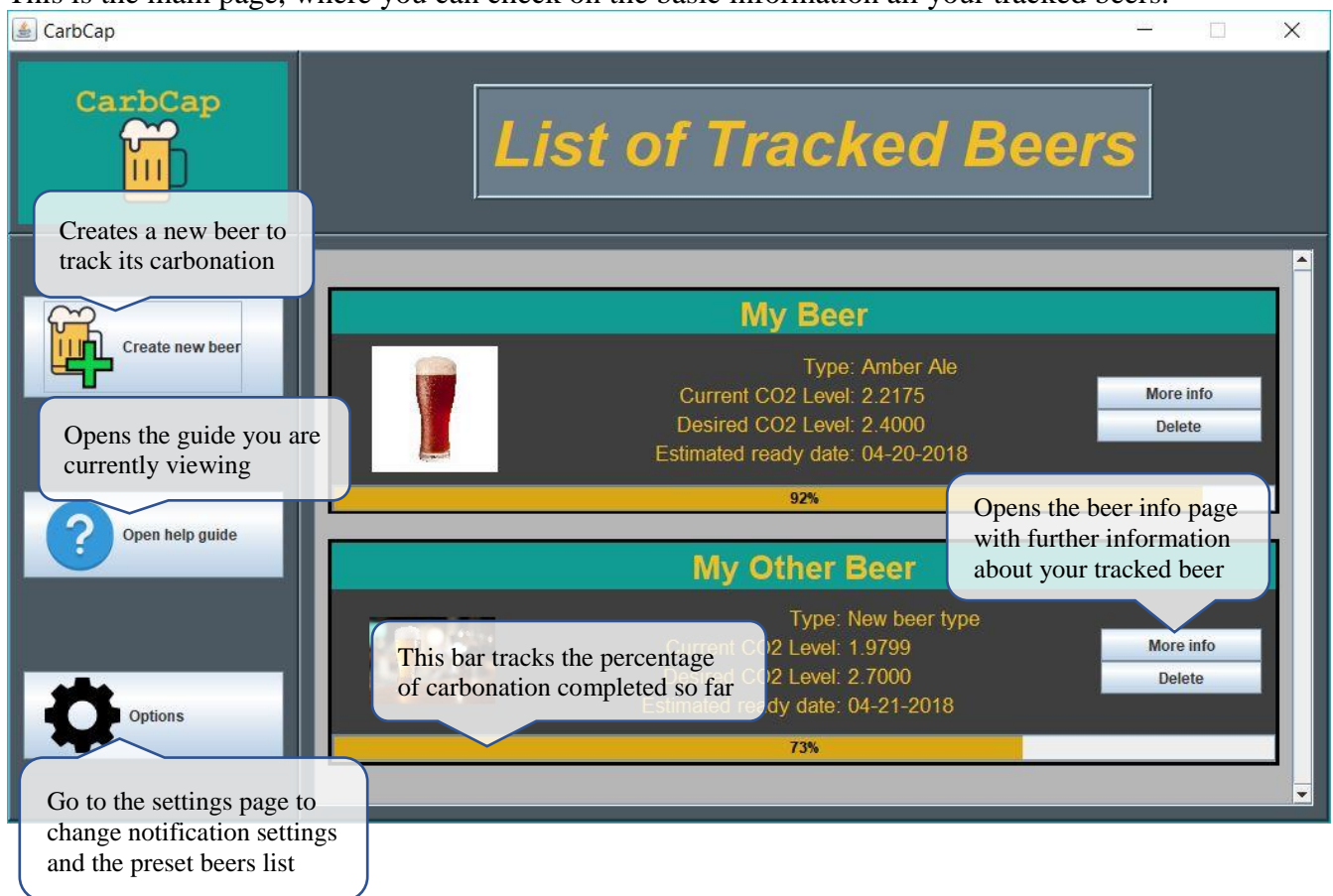


# CarbCap User Guide

This program allows you to track the carbonation of your home-brewed beers, allowing you to open them at the optimal CO2 level for drinking. Each beer's carbonation history is tracked from its bottle date, allowing you to see how it is progressing. Once the carbonation is ready, has plateaued, or is at dangerous levels where your bottle may burst, the program notifies you via the options you have selected.

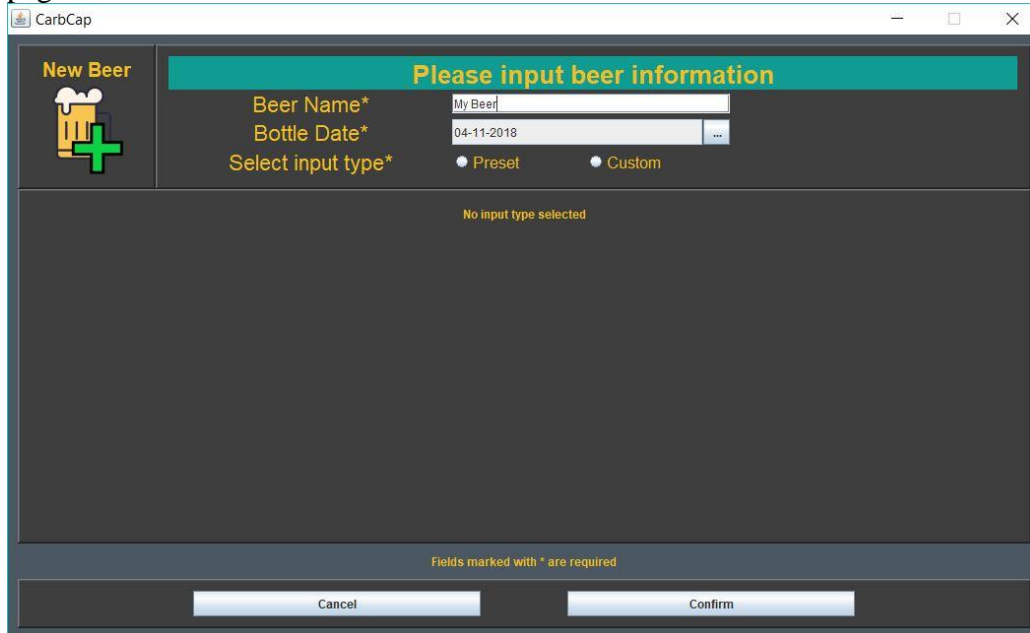
## Tracking Page

This is the main page, where you can check on the basic information all your tracked beers.



## New Beer page

Allows you to type in information to track a new beer. Press “Cancel” to go back to the tracking page.



- Beer name: the name that will help you uniquely identify this beer.
- Bottle date: the date this beer began to carbonate. Select by pressing the “...” button and choosing the date on the calendar shown.
- Input type: whether the rest of the beer information will be selected from a preset list of beers, or entered manually by the user for a custom beer.

Preset input: Select the beer you wish to make from the drop-down list of preselected beers. The volume and image are automatically chosen based on your selection.



Custom beer: Input the necessary information for your beer.

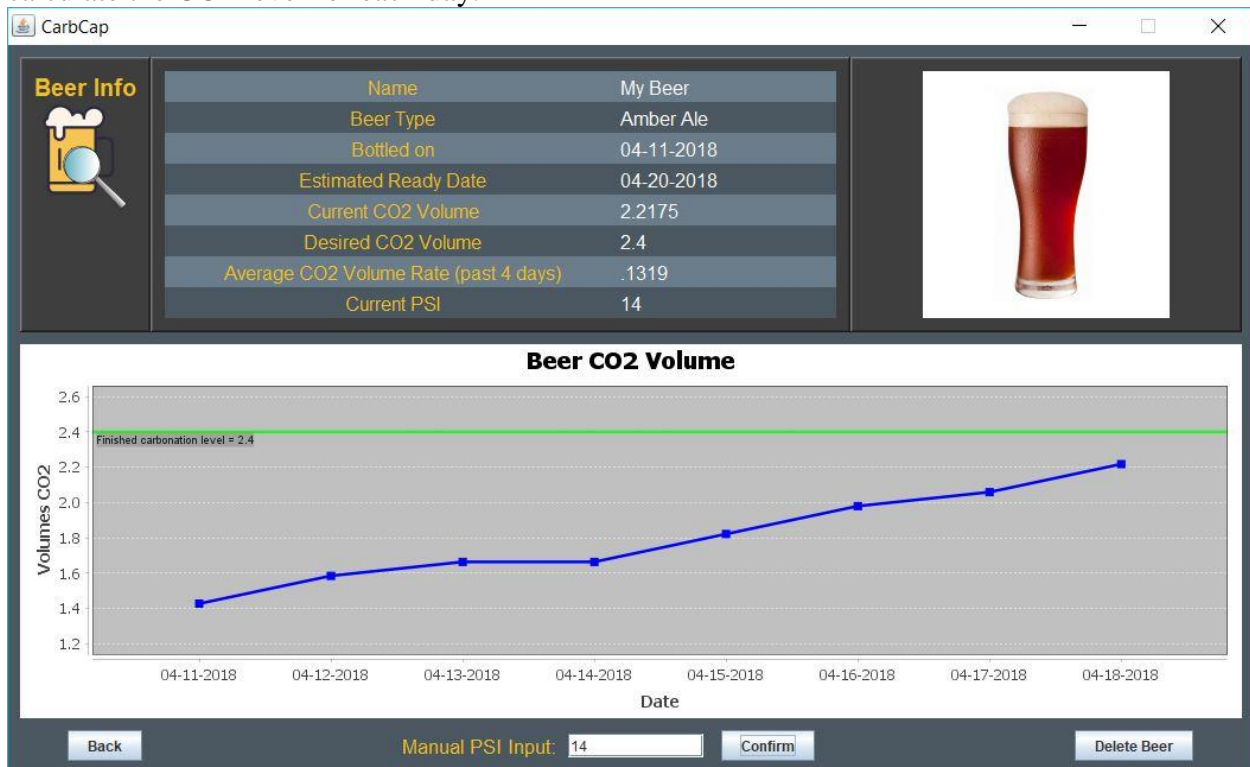
The screenshot shows a software window titled "CarbCap" with a sidebar on the left labeled "New Beer" featuring a beer glass icon and a green plus sign. The main content area has a teal header "Please input beer information". Below this header are three input fields: "Beer Name\*" with the value "My Beer", "Bottle Date\*" with the value "04-11-2018", and "Select input type\*" with radio buttons for "Preset" (selected) and "Custom". Below these is another teal header "Type in the following info for a custom beer". Under this header are three more input fields: "Beer type" with the value "New Type", "Final CO2 volume\*" with the value "2.5", and "Beer image" with a file path. A "Choose image" button is located to the right of the "Beer image" field. To the right of the input fields is a preview window showing a glass of beer. At the bottom of the window, a message states "Fields marked with \* are required", and there are "Cancel" and "Confirm" buttons.

- Beer type: the kind of beer you will be carbonating. You can leave it blank to have it appear as "Custom".
- Final CO2 volume: the level of CO2 you wish for your beer. Must be a number with or without decimals.
- Beer image: the image you would like to represent this beer. You can select the image file by pressing the "Choose image" button and selecting the image in the dialog pane. Allowed image file types are .jpg/.jpeg, .png, and .gif. Leave this field blank to have the program select a generic beer image.

Once your beer information is complete, press the "Confirm" button. After verifying the information is correct in the confirmation pop-up, click "Yes".

## **Beer Info page**

Displays all the carbonation info for the currently selected beer. Also shows a graph displaying the progress of the beer's CO2 level and allows the user to manually input the beer's pressure to calculate the CO2 level for each day.



Graph:

- Shows the history of the beer's CO2 levels since its bottle date. Each point represents the volume for a particular date.
- The green line represents the desired/finish CO2 level at which this beer finishes carbonation.
- A red line represents the level at which the beer bottle is in danger of bursting. Be sure to open the bottle before then!

Manual PSI input

- Allows the user to manually input the pressure, in PSI, of the beer in order to calculate the CO2 volume for the current day, assuming the beer temperature is at 50 °F.
- The input allows for only one input per day, starting with the beer bottle date. The new input will be for the day after the last point on the graph. For instance, if the last point is on April 18, the next input will be for April 19.
- Only whole numbers are allowed for the PSI input (no decimals).

Press "Delete Beer" if you are finished tracking this beer.

Press "Back" to go back to the tracking page.

## Settings page

Select and adjust the types of notifications you would like to receive, and edit the list of preset beers that is displayed when tracking a new beer.



## Notification settings

Each beer may send 3 types of notifications:

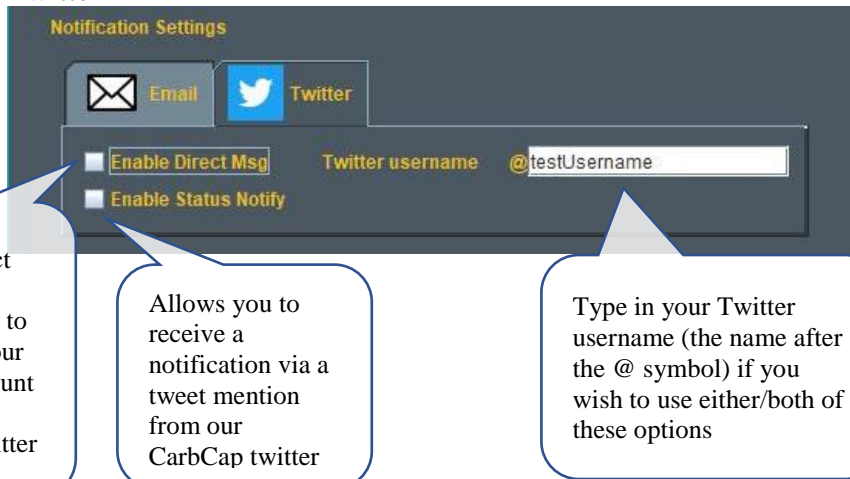
- Ready: The beer has reached its desired CO2 level.
- Warning: The beer has reached the level at which the bottle may burst.
- Plateaued: The beer's carbonation rate has slowed to a near-stop and will likely not carbonate more.

When one of these situations occurs, the program will send out the notification to the options that the user has selected. You can select as many notification options as you would like.

## Email -

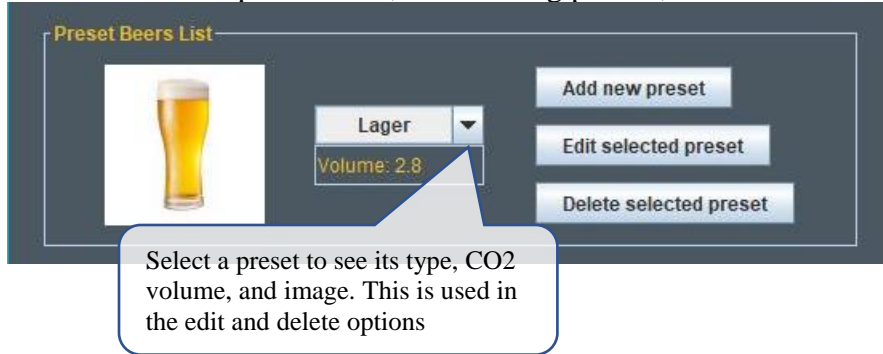


## Twitter –



## Preset beers settings

You can add new preset beers, edit existing presets, and delete existing presets here.



- Add new preset: fill in the fields to create a new preset. Beer type can be left empty to label it as “Custom”, and beer image can be left empty to display it using a generic beer image. CO2 volume must be a number with or without decimals.

Add new preset

Beer type name  
Desired CO2 volume  
Beer image

Choose image

OK Cancel

- Edit selected preset: change the provided fields to edit the selected preset.

Edit preset

Beer type name  
Desired CO2 volume  
Beer image

Pale Ale  
2.6  
images/pale ale.jpg

Choose image

OK Cancel

- Delete selected preset: remove the selected preset from the list. Once you confirm the deletion in the confirmation pop-up, this preset will no longer appear in the preset beer list.

**All changes are not saved until you press the “OK” button on the main settings page. Be sure to save your changes by pressing this button once finished, or press “Cancel” to ignore all changes!**